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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,116	09/23/2003	Robert Miller	37505.0075	4082
33751	7590	08/24/2006	EXAMINER	
WILSON GREATBATCH TECHNOLOGIES, INC. 10,000 WEHRLE DRIVE CLARENCE, NY 14031			ECHELMMEYER, ALIX ELIZABETH	
			ART UNIT	PAPER NUMBER
			1745	

DATE MAILED: 08/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/669,116

Applicant(s)

MILLER, ROBERT

Examiner

Alix Elizabeth Echelmeyer

Art Unit

1745

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 June 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 7-17 and 20-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-17 and 20-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date. 7-12-06.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. This action is in response to Applicants' reply filed June 9, 2006. Claims 1-4, 8-11, 13, 14, 16, 17 and 20-23 have been amended. Claims 5, 6, and 18 are cancelled. Claims 1-4, 7-17 and 19-23 are pending and are rejected finally for the reasons given below.

Specification

2. The objections to the Specification in the Office Action of February 23, 2006 are withdrawn in light of the amendments.

Claim Objections

3. The objection to claim 4 in the Office Action of February 23, 2006 is withdrawn in light of the amendments.

Claim Rejections - 35 USC § 112

4. The rejections of claims 8 and 23 in the Office Action of February 23, 2006 are withdrawn in light of the amendments.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148

USPQ 459 (1966), that are applied for establishing a background for determining

obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. Claims 1, 7 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lessar et al. (US Patent 6,006,133) in view of Inagaki et al. (US Pre-Grant Publication 2004/0247951).

Lessar et al. teach an energy source having a planar layered structure with anode and cathode layers having separator layers in between. The separator layers are impregnated with a solid or liquid electrolyte. The anode and cathode layers have registration tabs extending from their perimeter. The entire assembly is sealed in a case. The anode and cathode layers are connected electrically (column 8 lines 59-67, column 9 lines 1-17).

Lessar et al. fail to teach an identification code on the exposed portion of the current collector.

Inagaki et al. teach a fuel cell having a barcode correlating to particular information relating to the fuel cell that cannot be determined by the outer appearance

of the fuel cell ([0007]-[0008]). The barcode is located on the separator (abstract). Inagaki et al. further teach that the barcode can contain "particular information," including, for example, manufacturing data ([0009]).

Placing the barcode on the current collector instead of the separator, which can also be used as a current collector, would be obvious to one having ordinary skill in the art since it has been held that rearranging parts of an invention involves only routine skill in the art. MPEP 2144(VI)

It would be advantageous to use the barcode as taught by Inagaki in the fuel cell of Lessar et al. in order to provide data about the fuel cell that cannot be determined by outer appearance.

Further, Inagaki et al. teaches that the data on the barcode can be manufacturing data. The examiner believes that the weight of the current collector and a gram amount of the electrode active material are manufacturing data.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the barcode taught by Inagaki et al. in the fuel cell of Lessar et al. in order to provide information about the cell that is not determined by outer appearance.

8. Claims 9-13, 15, 16, and 19 rejected under 35 U.S.C. 103(a) as being unpatentable over Lessar et al. in view of Inagaki et al. as applied to claim 7 and in view of Gan et al. (US Patent 6,790,561).

The teachings of Lessar et al. and Inagaki et al. as discussed above are incorporated herein.

Lessar et al. in view of Inagaki et al. teach an electrode with an active material contacted to the current collector, a barcode located on the current collector containing data about the cell, a counter electrode, a separator between the electrodes, a casing housing the electrodes, and an electrical connection between the electrodes. Lessar et al. in view of Inagaki et al. teach the use of the electric energy storage device, specifically an electrochemical or electrolyte capacitor, in an implantable medical device. Lessar et al. in view of Inagaki et al. fail to teach the use of silver vanadium oxide (SVO) and fluorinated carbon (CF_x) as active electrode materials, the wing shape, or the method of forming the electrodes.

Gan et al. teach a method for forming an electrode having two active materials with the following configuration: SVO / current collector / CF_x / current collector / SVO (column 2 lines 35-54, column 8 lines 7-12).

The use of these materials allows for electrode active materials having different strengths and weaknesses to share both ions and electrons during cell discharge (column 2 lines 24-36).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the configuration taught by Gan et al. in the electrical energy storage device of Lessar et al. in view of Inagaki et al. in order to create a cell structure that could share both ions and electrons during cell discharge.

With regards to claim 11, Gan et al. teach that the anode current collector can be formed in some other geometry in order to allow an alternate low surface cell design (column 5 lines 53-64). Changing the shape of the cathode to match the shape of the anode would reduce the amount of surface area not matched by the cathode.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the current collectors of Lessar et al. in view of Inagaki et al. to have the configuration with two active materials mentioned above and a different shape, such as a wing shape with the registration tab between the two wings.

Regarding claim 12, Gan et al. teach the use of a jellyroll-type configuration (column 9 lines 15-21).

This configuration allows for a larger surface area of contact among the parts of the cell.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to put the current collectors of Lessar et al. in view of Inagaki et al. in the configuration mentioned above into a jellyroll-type configuration in order to increase the surface area of contact among the parts.

As for claim 15, Gan et al. teach the use of the electrical energy storage device having an electrode of the configuration SVO / current collector / CF_x / current collector / SVO in an implantable cardioverter defibrillator (column 3 lines 1-2).

The use of a cell having an electrode of the type described above is particularly well suited for this use, according to Gan et al. This teaching would suggest the use of such devices as medical implants.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the electrode made by the combination of Lessar et al. in view of Inagaki et al. and Gan et al. as discussed above in an implantable cardioverter defibrillator because it is taught by Gan et al.

9. Claims 2-4, 14, 17 and 20-22 and rejected under 35 U.S.C. 103(a) as being unpatentable over Lessar et al. in view of Inagaki et al. and Gan et al. as applied to claims 1 and 13 above and in further view of Merlin et al. (US Patent 5,552,574).

The teachings of Lessar et al., Inagaki et al. and Gan et al. as discussed above are incorporated herein.

Lessar et al. in view of Inagaki et al. teach a registration tab having an identification barcode and a housing casing, but fail to teach an ID matrix or marks applied by etching.

Merlin et al. teach a method for marking particulars on a card having metal contacts. They teach the use of a laser beam to etch said particulars, such as a security message or manufacturer's identification. The etching can be performed at any stage in the manufacturing process. This process permits units to be identified individually (abstract, column 1 lines 15-17, column 2 lines 6-38).

Further, regarding claims 20 and 22, the purpose of providing information on a part is to allow for information about the part to be accessed. If the information were not to be used, then there would not be a need to put information on the part. Scanning the identifying information on the current collector tab of Lessar et al. in view of Inagaki et

al. that was put there using the method of Merlin et al. would allow one working with the current collector to access the information when it was needed.

Adding the identifying information of Merlin et al. to the registration tab on the anode or cathode of Lessar et al. in view of Inagaki et al. allows one working with the anode or cathode to put information about the particulars, such as a security message or manufacturer's identification, of said anode or cathode. This also allows for the information about the part to be recorded on the part so that it can be easily accessed.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the etching process of Merlin et al. to put identifying marks on the registration tabs on the anodes and cathodes or the housing casing of Lessar et al. in view of Inagaki et al. in order to provide information about the anodes and cathodes

Response to Arguments

10. Applicant's arguments with respect to claims 1-4, 7-17 and 19-23 have been considered but are moot in view of the new grounds of rejection.

Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alix Elizabeth Echelmeyer whose telephone number is 571-272-1101. The examiner can normally be reached on Mon-Fri 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


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